ATTACHMENT F

Scope of Work

Falcon Support Building

Electrical Upgrade

Scope of Work

Contractor shall install two new recessed electrical panels and a step down transformer in the Falcon Support Building (FSB) in the locations indicated on the attached diagram. Contractor shall follow NEC and NFPA 70 codes. Contractor will furnish all materials (new) such as EMT conduit, copper THHN/THWN wire, panels, transformer etc. and install as detailed below:

- 75KVA step down transformer (FSB T1)
    a) 480V Delta to 208/120V Y
    b) Dry type 80° C
    c) Fed from 480v panel 'R1'; install 100A 3Ø circuit breaker (TED type). Route 3-#2, No. 4 Ground in 1-1/4" conduit. Make final connection to transformer using flexible metallic conduit.
    d) To be located on plinth in HVAC Room (see drawing)
    e) Install 225 Amp, 240 VAC, 3-Pole, 10 KAIC enclosed circuit breaker with solid neutral, ground bus, and lockout attachment at transformer location for secondary conductor protection.
    f) Install earth ground for transformer separately derived system in accordance with NEC Article 250. Make main bonding jumper connection at the transformer.

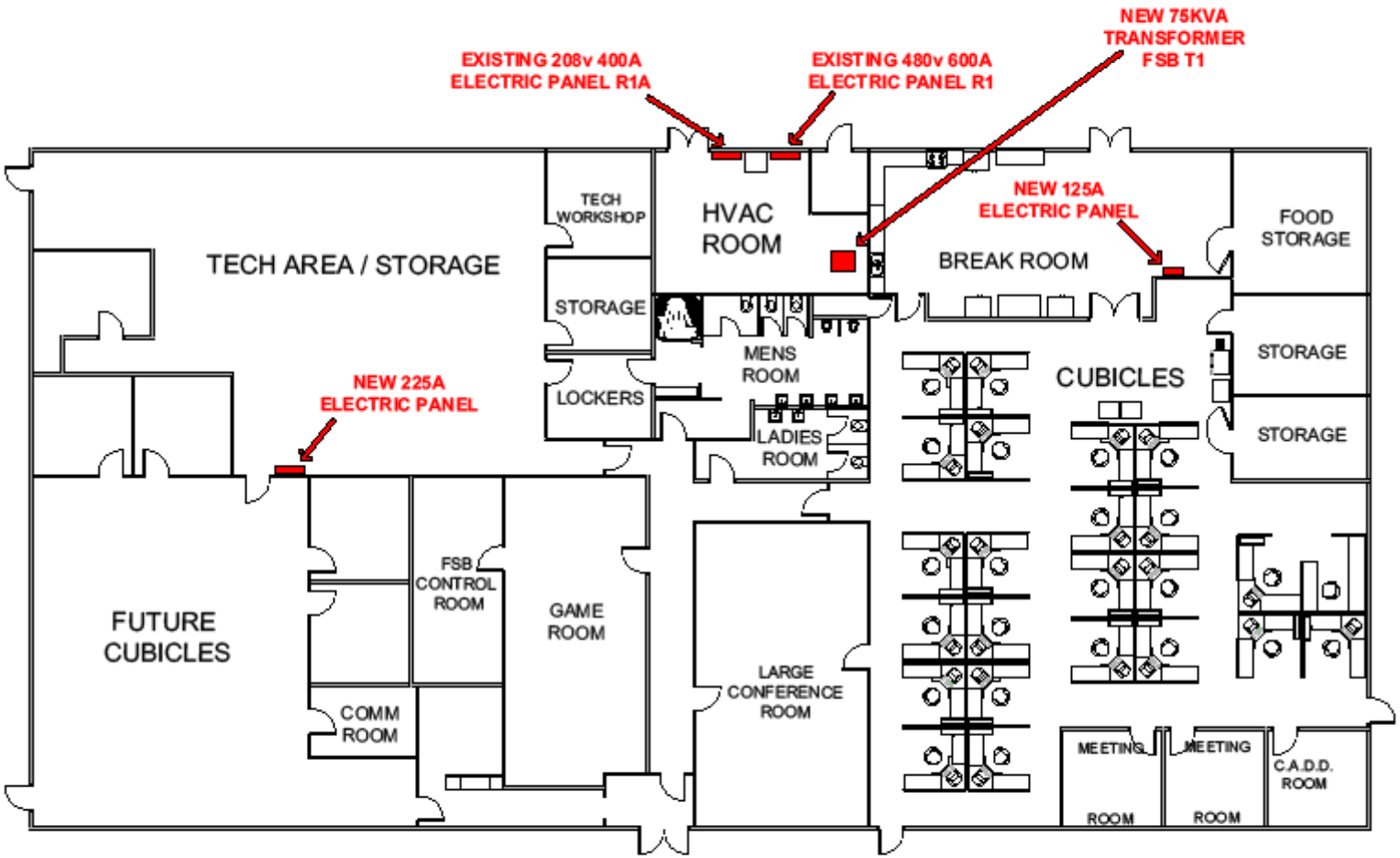
- 225A, recessed, 3Ø, 208/120v, Y, 42 circuit, GE Panel
    a) Fed from new transformer FSB T1 enclosed secondary breaker; 4-4/0 and No. 4 ground in 2-1/2" conduit.
    b) Top feed, main lug only configuration, door-in-door frame, neutral bus, and ground bus.
    c) Fully populated with 20-Amp, 1-Pole, 10 KAIC THQL breakers
    d) To be located on South wall, by door of Tech Area/Storage, room (see drawing)

e) 12” x 12” junction box to be installed directly above the panel in the drop ceiling and piped (3” EMT min.) into panel to facilitate future, customer installed, circuits.

- 125A, recessed, 3Ø, 208/120v, Y, 30 circuit, GE Panel, MLO
  a) Fed from existing panel ’R1A’ located in HVAC Room; provide 100-Amp, 3-pole, 22 KAIC compatible breaker (GE Type TED). Route 4-No. 2 and No. 8 ground in 1-1/4” conduit.
  b) Fully populated with 20-Amp, 1-Pole, 22 KAIC THQL breakers
  c) Top feed, main lug only configuration, door-in-door frame, neutral bus, and ground bus.
  d) To be located on South wall at the East end, by door of Break Room (see drawing)
  e) 12” x 12” junction box to be installed directly above the panel in the drop ceiling and piped (3” EMT min.) into panel to facilitate current and future circuits.
  All current outlets and circuits in the Break Room to be individually wired by contractor to this panel; do not use future circuit J-box indicated above. Circuits are currently fed from existing Panel R1A3. Remove all existing conduit not re-used. Remove all wiring and re-install No. 12 solid THHN to existing receptacles.

- Repair and re-paint all wall surfaces damaged by installation to match existing area.

FALCON SUPPORT BUILDING



NICK ELLIS
7/1/2009

NOT TO
SCALE